

REVISIONS																			
LTR	DESCRIPTION										DATE (YR-MO-DA)					APPROVED			
A	Correct title to read ANALOG TO DIGITAL. Change conditions for timing tests, table I. Change figure 3. Editorial changes throughout.										90-01-24					M. A. Frye			
B	Changes in accordance with NOR 5962-R231-94.										94-08-12					M. A. Frye			
C	Update drawing to current requirements. Editorial changes throughout. - gap										01-08-30					Raymond Monnin			
THE ORIGINAL FIRST PAGE OF THIS DRAWING HAS BEEN REPLACED.																			
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REV STATUS				REV		C	C	C	C	C	C	C	C	C	C	C	C	C	C
OF SHEETS				SHEET		1	2	3	4	5	6	7	8	9	10	11	12	13	14
PMIC N/A				PREPARED BY Joseph A. Kerby						DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216 http://www.dscc.dla.mil									
STANDARD MICROCIRCUIT DRAWING THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE AMSC N/A				CHECKED BY Charles E. Besore															
				APPROVED BY Michael A. Frye															
				DRAWING APPROVAL DATE 87-08-18															
				REVISION LEVEL C															
				SIZE A		CAGE CODE 67268			5962-87591										
				SHEET 1 OF 14															

1.1 Scope. This drawing describes device requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535, appendix A.

1.2 Part or Identifying Number (PIN). The complete PIN is as shown in the following example:

<u>5962-87591</u>	<u>01</u>	<u>L</u>	<u>X</u>
Drawing number	Device type (see 1.2.1)	Case outline (see 1.2.2)	Lead finish (see 1.2.3)

1.2.1 Device type(s). The device type(s) identify the circuit function as follows:

<u>Device type</u>	<u>Generic number</u>	<u>Circuit function</u>
01	AD7572	12.5-microsecond, 11-bit linearity, 12-bit resolution CMOS A/D converter with 45 ppm/°C reference.
02	AD7572	12.5-microsecond, 11-bit linearity, 12-bit resolution CMOS A/D converter with 25 ppm/°C reference.
03	AD7572	12.5-microsecond, 12-bit linearity, 12-bit resolution CMOS A/D converter with 25 ppm/°C reference.
04	AD7572	5-microsecond, 11-bit linearity, 12-bit resolution CMOS A/D converter with 45 ppm/°C reference.
05	AD7572	5-microsecond, 11-bit linearity, 12-bit resolution CMOS A/D converter with 25 ppm/°C reference.
06	AD7572	5-microsecond, 12-bit linearity, 12-bit resolution CMOS A/D converter with 25 ppm/°C reference.

1.2.2 Case outline(s). The case outline(s) are as designated in MIL-STD-1835 and as follows:

<u>Outline letter</u>	<u>Descriptive designator</u>	<u>Terminals</u>	<u>Package style</u>
L	GDIP3-T24 or CDIP4-T24	24	Dual-in-line package
3	CQCC1-N28	28	Leadless square chip carrier package

1.2.3 Lead finish. The lead finish is as specified in MIL-PRF-38535, appendix A.

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1.3 Absolute maximum ratings. ($T_A = +25^{\circ}\text{C}$, unless otherwise noted).

V_{DD} to DGND	-0.3 V dc to +7 V dc
V_{SS} to DGND	+0.3 V dc to -17 V dc
AGND to DGND	-0.3 V dc, $V_{DD} + 0.3$ V dc
A_{IN} to AGND	-15 V dc to +15 V dc
Digital input voltage to DGND	-0.3 V dc, $V_{DD} + 0.3$ V dc
Digital output voltage to DGND	-0.3 V dc, $V_{DD} + 0.3$ V dc
Storage temperature	-65°C to $+150^{\circ}\text{C}$
Power dissipation $\leq +75^{\circ}\text{C}$	1,000 mW ^{1/}
Thermal resistance (θ_{JC}):	See MIL-STD-1835
Junction temperature (T_J)	$+175^{\circ}\text{C}$

1.4 Recommended operating conditions.

Operating voltage range:	
Positive supply (V_{DD})	+4.75 V dc to +5.25 V dc
Negative supply (V_{SS})	-14.25 V dc to -15.75 V dc
Clock frequency (f_{CLK})	1.0 MHz for device types 01, 02, and 03 2.5 MHz for device types 04, 05, and 06
Analog input voltage range (A_{IN})	
(specifications apply to slow memory mode)	0 to +5.0 V dc
Ambient operating temperature range (T_A)	-55°C to $+125^{\circ}\text{C}$

2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and handbooks. The following specification, standards, and handbooks form a part of this drawing to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

SPECIFICATION

DEPARTMENT OF DEFENSE

MIL-PRF-38535 - Integrated Circuits, Manufacturing, General Specification for.

STANDARDS

DEPARTMENT OF DEFENSE

MIL-STD-883 - Test Method Standard Microcircuits.
MIL-STD-1835 - Interface Standard Electronic Component Case Outlines.

HANDBOOKS

DEPARTMENT OF DEFENSE

MIL-HDBK-103 - List of Standard Microcircuit Drawings.
MIL-HDBK-780 - Standard Microcircuit Drawings.

(Unless otherwise indicated, copies of the specification, standards, and handbooks are available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

^{1/} Derate power dissipation above $+75^{\circ}\text{C}$ by 10 mW/ $^{\circ}\text{C}$.

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2.2 Order of precedence. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Item requirements. The individual item requirements shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein. Product built to this drawing that is produced by a Qualified Manufacturer Listing (QML) certified and qualified manufacturer or a manufacturer who has been granted transitional certification to MIL-PRF-38535 may be processed as QML product in accordance with the manufacturers approved program plan and qualifying activity approval in accordance with MIL-PRF-38535. This QML flow as documented in the Quality Management (QM) plan may make modifications to the requirements herein. These modifications shall not affect form, fit, or function of the device. These modifications shall not affect the PIN as described herein. A "Q" or "QML" certification mark in accordance with MIL-PRF-38535 is required to identify when the QML flow option is used.

3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535, appendix A and herein.

3.2.1 Terminal connections. The terminal connections shall be as specified on figure 1.

3.2.2 Load circuits. The load circuits shall be as specified on figures 2 and 3.

3.2.3 Timing diagrams. The timing diagrams shall be as specified on figures 4, 5, 6, and 7.

3.2.4 Case outlines. The case outlines shall be in accordance with 1.2.2 herein.

3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full ambient operating temperature range.

3.4 Electrical test requirements. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are described in table I.

3.5 Marking. Marking shall be in accordance with MIL-PRF-38535, appendix A. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked as listed in MIL-HDBK-103 (see 6.6 herein). For packages where marking of the entire SMD PIN number is not feasible due to space limitations, the manufacturer has the option of not marking the "5962-" on the device.

3.5.1 Certification/compliance mark. A compliance indicator "C" shall be marked on all non-JAN devices built in compliance to MIL-PRF-38535, appendix A. The compliance indicator "C" shall be replaced with a "Q" or "QML" certification mark in accordance with MIL-PRF-38535 to identify when the QML flow option is used.

3.6 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-HDBK-103 (see 6.6 herein). The certificate of compliance submitted to DSCC-VA prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-PRF-38535, appendix A and the requirements herein.

3.7 Certificate of conformance. A certificate of conformance as required in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.

3.8 Notification of change. Notification of change to DSCC-VA shall be required in accordance with MIL-PRF-38535, appendix A.

3.9 Verification and review. DSCC, DSCC's agent, and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions -55°C ≤ T _A ≤ +125°C unless otherwise specified	Device types	Group A subgroups	Limits		Unit
					Min	Max	
Integral linearity error	LE	V _{DD} = 5 V, V _{SS} = -15 V	01, 02, 04, 05	1		±1	LSB
			03, 06	2, 3		±1	
			03, 06	2, 3		±3/4	
			03, 06	12		±1/2	
Differential linearity error	DLE	V _{DD} = 5 V, V _{SS} = -15 V	All	1, 2, 3		±1	
Offset error	V _{OS}	V _{DD} = 5 V V _{SS} = -15 V	All	1		±4	LSB
			01, 04	2, 3		±6	
			02, 05	2, 3		±5	
			03, 06	2, 3		±4	
			02, 05, 03, 06	12		±3	
Full scale error including internal voltage reference error, (Ideal last code transition = FS-3/2LSB's)	AE	V _{DD} = 5 V V _{SS} = -15 V Full scale = 5 V	All	1		±15	LSB
			02, 03, 05, 06	12		±10	
Full scale temperature coefficient, including internal voltage reference drift	dAE/dT	V _{DD} = 5 V V _{SS} = -15 V	01, 04	2, 3		45	ppm/°C
			02, 03, 05, 06			25	
Analog input current	I _{IN}	A _{IN} = 5 V	All	1, 2, 3		3.5	mA
Internal reference voltage output	V _{REF}	V _{DD} = 5 V, V _{SS} = -15 V	All	1	-5.3	-5.2	V
Internal reference output current sink capability		Constant external load during conversion	All	13, 14, 15		550	μA
Digital input low voltage	V _{INL}	CS, RD, HBEN, CLK IN. V _{DD} = 4.75 V V _{SS} = -15 V	All	1, 2, 3		0.8	V
Digital input high voltage	V _{INH}		All	1, 2, 3	2.4		
Digital input capacitance	C _{IN}		All	13		10	pF
Digital input current	I _{IN}	CS, RD, HBEN. V _{DD} = 5.25 V, V _{SS} = -15 V A _{IN} = 0 to V _{DD}	All	1, 2, 3		±10	μA
		CLK IN. V _{DD} = 5.25 V, V _{SS} = -15 V, A _{IN} = 0 to V _{DD}	All			±20	

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T _A ≤ +125°C unless otherwise specified	Device types	Group A subgroups	Limits		Unit
					Min	Max	
Digital output low voltage	V _{OL}	D11-D0/8, BUSY, CLK OUT V _{DD} = 4.75 V, V _{SS} = -15 V I _{sink} = 1.6 mA I _{source} = 200 μA	All	1, 2, 3		0.4	V
Digital output high voltage	V _{OH}		All	1, 2, 3	4.0		
Floating state leakage current	V _{OL}	D11-D0/8. V _{DD} = 5.25 V, V _{SS} = -15 V	All	1, 2, 3		±10	μA
Floating state output capacitance	C _{OUT}		All	13, 14, 15		15	pF
Conversion time using synchronous clock	t _{CONV}		04, 05, 06	13, 14, 15		5	μs
			01, 02, 03			12.5	
Conversion time using asynchronous clock 1/	t _{CONV}		04, 05, 06	9, 10, 11	4.8	5.2	
			01, 02, 03		12.0	13.0	
Power supply current from V _{DD}	I _{DD}	V _{DD} = 5.25 V V _{SS} = -15.75 V	All	1, 2, 3		7	mA
Power supply current from V _{SS}	I _{SS}	CS = $\overline{\text{RD}}$ = $\overline{\text{BUSY}}$ = HIGH A _{IN} = 5 V	All	1, 2, 3		12	
$\overline{\text{CS}}$ to $\overline{\text{RD}}$ setup time	t ₁	See figures 4, 5, 6, and 7 2/	All	9, 14, 15	0		ns
$\overline{\text{RD}}$ to $\overline{\text{BUSY}}$ propagation delay	t ₂		All	9		190	
				14, 15		270	
Data access time after $\overline{\text{RD}}$, C _L = 60 pF (see figure 2) 4/	t ₃ 3/		All	9		110	
				14, 15		150	
Data access time after $\overline{\text{RD}}$, C _L = 100 pF (see figure 2)	t ₃ 3/		All	9		125	
				14, 15		170	
$\overline{\text{RD}}$ pulse width	t ₄		All	9, 14, 15	t ₃		
$\overline{\text{CS}}$ to $\overline{\text{RD}}$ hold time	t ₅		All	9, 14, 15	0		

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T _A ≤ +125°C unless otherwise specified	Device types	Group A subgroups	Limits		Unit
					Min	Max	
Data setup time after $\overline{\text{BUSY}}$, C _L = 60 pF (see figure 2)	t ₆ <u>3/</u>	See figures 4, 5, 6, and 7 <u>2/</u>	All	9		70	ns
				14, 15		100	
Bus relinquish time (see figure 3)	t ₇ <u>5/</u>		All	9	35	90	
				14, 15	20	90	
HBEN to $\overline{\text{RD}}$ setup time	t ₈		All	9, 14, 15	0		
HBEN to $\overline{\text{RD}}$ hold time	t ₉		All	9, 14, 15	0		
Delay between suc- cessive read operations	t ₁₀		All	9, 14, 15	500		

1/ Conversion time using asynchronous clock is measured by setting the clock frequency at the appropriate value (see 1.4) and checking all remaining tested specifications.

2/ All input control signals are specified with t_r = t_f = 5 ns (10 percent to 90 percent of +5 V) and timed from a voltage level of 1.6 V. Time t₆ and t₁₀ are measured only for the initial test and after process or design changes which may affect switching parameters.

3/ Time t₃ and t₆ are measured with the load circuits of figure 2 and defined as the time required for an output to cross 0.8 V or 2.4 V.

4/ If not tested, shall be guaranteed to the limits specified in table I herein.

5/ Time t₇ is defined as the time required for the data lines to change 0.5 V when loaded with the circuits of figure 3.

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CASE L

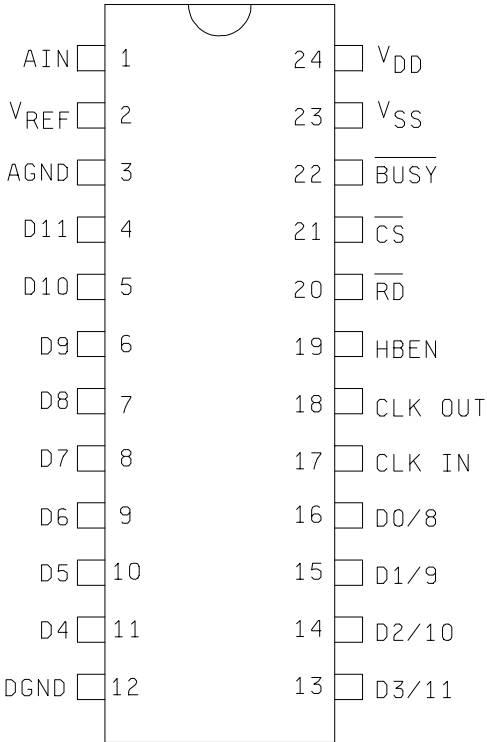


FIGURE 1. Terminal connections.

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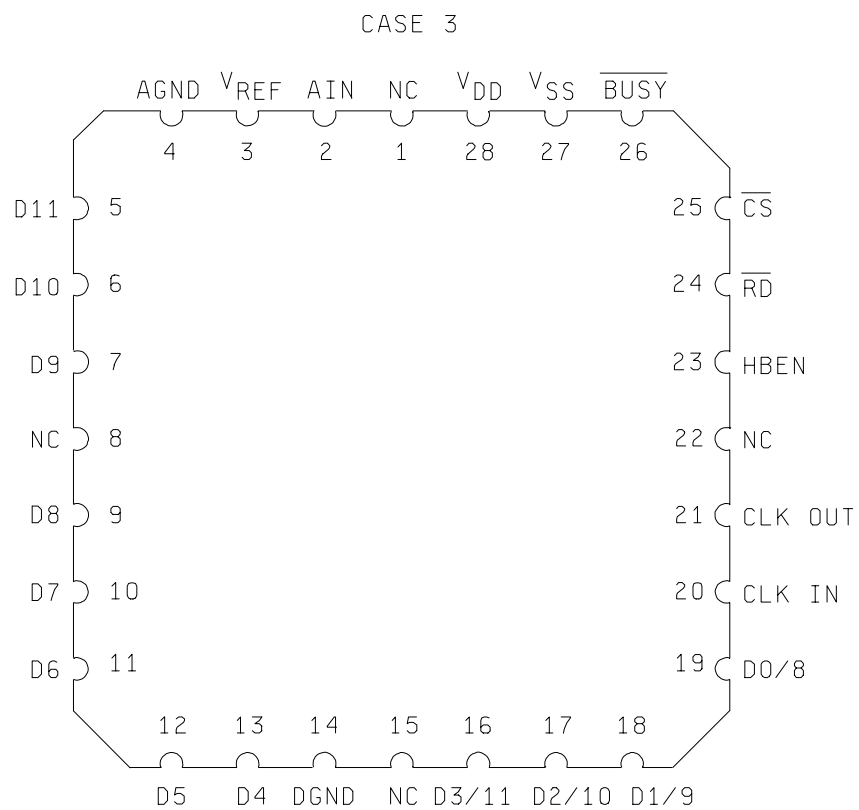


FIGURE 1. Terminal connections – continued.

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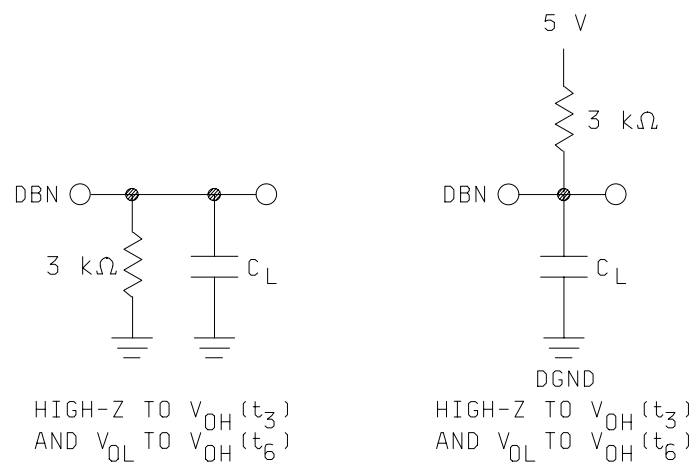


FIGURE 2. Load circuit for access time.

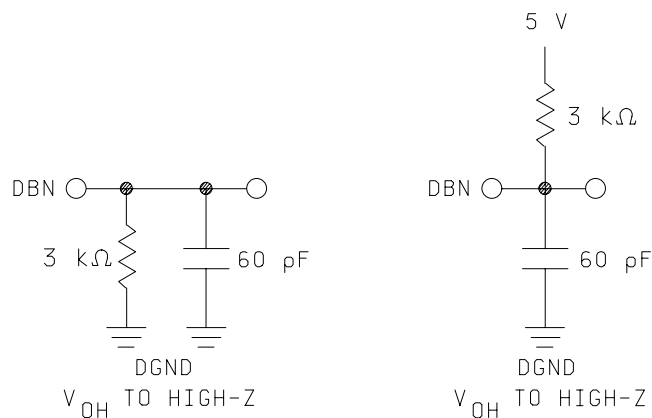


FIGURE 4. Load circuit for bus relinquish time.

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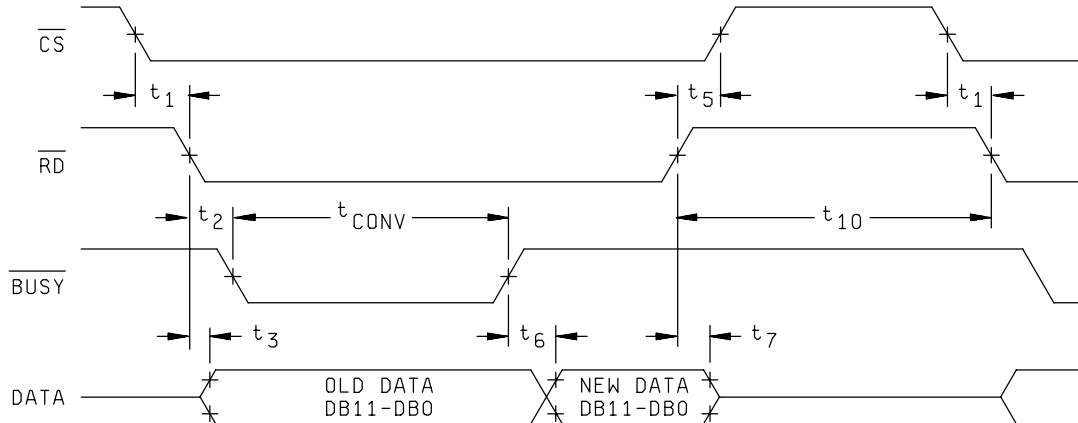


FIGURE 4. Slow memory mode, parallel read timing diagram.

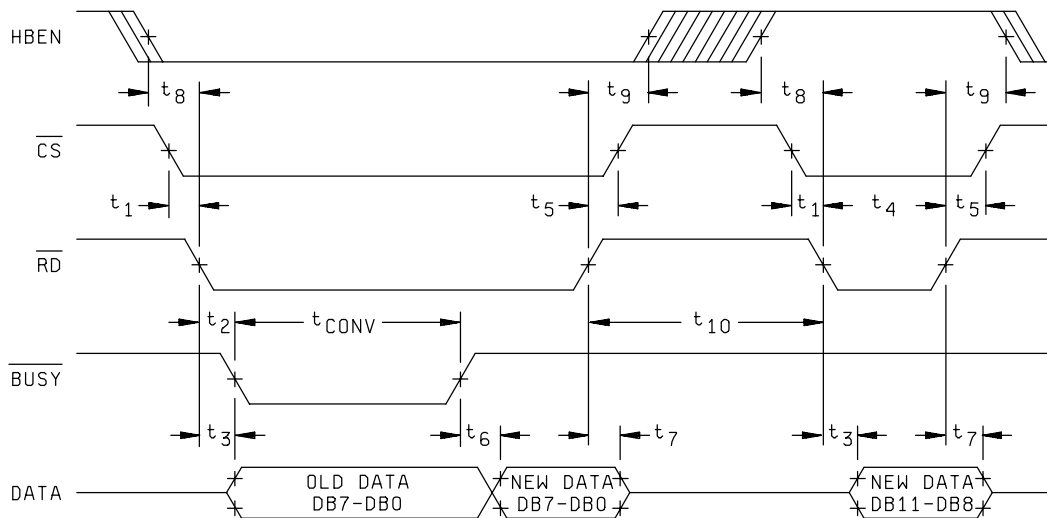


FIGURE 5. Slow memory mode, two byte read timing diagram.

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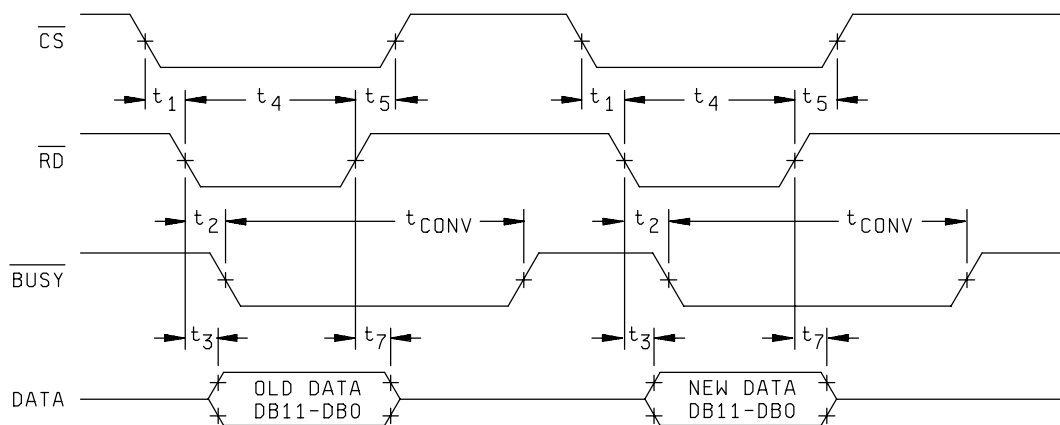


FIGURE 6. Rom mode, parallel read data bus timing diagram.

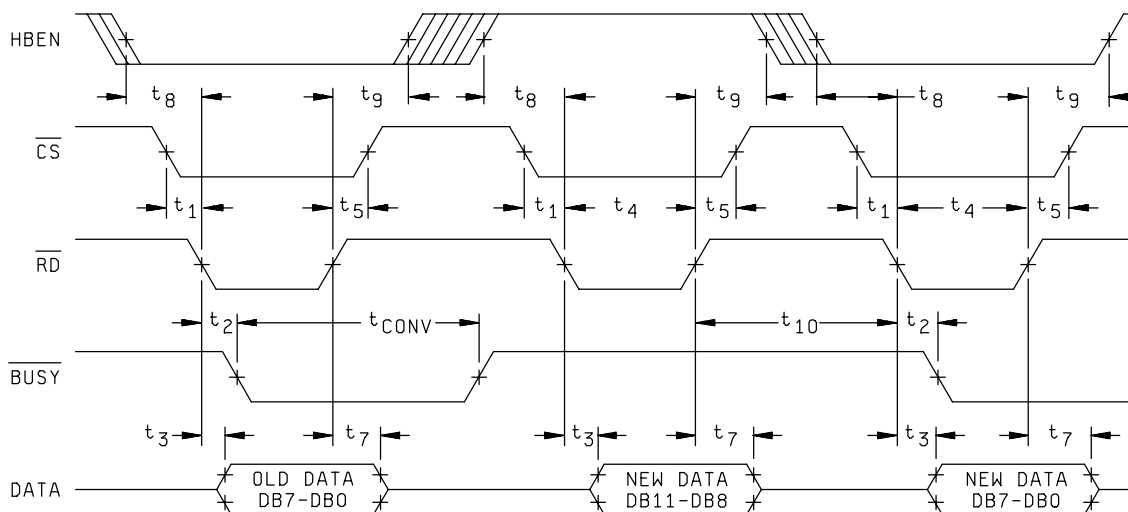


FIGURE 7. Rom mode, two byte read timing diagram.

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4. QUALITY ASSURANCE PROVISIONS

4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.

4.2 Screening. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. The following additional criteria shall apply:

- a. Burn-in test, method 1015 of MIL-STD-883.
 - (1) Test condition A or B. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1015 of MIL-STD-883.
 - (2) $T_A = +125^{\circ}\text{C}$, minimum.
- b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.
- c. Special subgroup 12 (as referenced in table I) added for grading and selection tests at $+25^{\circ}\text{C}$ not included in PDA.

TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)
Interim electrical parameters (method 5004)	1
Final electrical test parameters (method 5004)	1*, 2, 3, 9, 10, 11, 12
Group A test requirements (method 5005)	1, 2, 3, 9, 10, 11, 12, 13**, 14**, 15**
Groups C and D end-point electrical parameters (method 5005)	1, 12

* PDA applies to subgroup 1.

** Special subgroups 13, 14, and 15 shall be measured only for initial test and after process or design changes and shall be guaranteed to the limits specified in table I. Subgroup 13 is $+25^{\circ}\text{C}$, 14 is $+125^{\circ}\text{C}$, and 15 is -55°C .

4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with method 5005 of MIL-STD-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.

4.3.1 Group A inspection.

- a. Tests shall be as specified in table II herein.
- b. Subgroups 4, 5, 6, 7, and 8 in table I, method 5005 of MIL-STD-883 shall be omitted.
- c. Special subgroup 12 (as referenced in table I) added for grading and selection tests at $+25^{\circ}\text{C}$.

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4.3.2 Groups C and D inspections.

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test conditions, method 1005 of MIL-STD-883.
 - (1) Test condition A or B. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1005 of MIL-STD-883.
 - (2) $T_A = +125^{\circ}\text{C}$, minimum.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38535, appendix A.

6. NOTES

6.1 Intended use. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.

6.2 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.

6.3 Configuration control of SMD's. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished using DD Form 1692, Engineering Change Proposal.

6.4 Record of users. Military and industrial users shall inform Defense Supply Center Columbus when a system application requires configuration control and the applicable SMD. DSCC will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronics devices (FSC 5962) should contact DSCC-VA, telephone (614) 692-0544.

6.5 Comments. Comments on this drawing should be directed to DSCC-VA, Columbus, Ohio 43216-5000, or telephone (614) 692-0674.

6.6 Approved sources of supply. Approved sources of supply are listed in MIL-HDBK-103. The vendors listed in MIL-HDBK-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DSCC-VA.

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 01-08-30

Approved sources of supply for SMD 5962-87591 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38535 during the next revision. MIL-HDBK-103 and QML-38535 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DSCC-VA. This bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535.

Standard microcircuit drawing PIN <u>1/</u>	Vendor CAGE number	Vendor similar PIN <u>2/</u>
5962-8759101LA	24355	AD7572SQ12/883B
	1ES66	MX7572SQ12/883B
5962-87591013C	1ES66	MX7572SE12/883B
5962-8759102LA	<u>3/</u>	AD7572TQ12/883B
5962-87591023A	<u>3/</u>	AD7572TE12/883B
5962-8759103LA	24355	AD7572UQ12/883B
5962-87591033A	24355	AD7572UE12/883B
5962-8759104LA	24355	AD7572SQ05/883B
	1ES66	MX7572SQ05/883B
5962-87591043A	24355	AD7572SE05/883B
5962-87591043C	1ES66	MX7572SE05/883B
5962-8759105LA	24355	AD7572TQ05/883B
5962-87591053A	24355	AD7572TE05/883B
5962-8759106LA	24355	AD7572UQ05/883B
5962-87591063A	24355	AD7572UE05/883B

- 1/ The lead finish shown for each PIN representing a hermetic package is the most readily available from the manufacturer listed for that part. If the desired lead finish is not listed contact the vendor to determine its availability.
- 2/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- 3/ Not available from an approved source of supply.

Vendor CAGE
number

Vendor name
and address

24355

Analog Devices
Route 1 Industrial Park
P.O. Box 9106
Norwood, MA 02062
Point of contact: Bay F-1
Raheen Ind. Estate
Limerick, Ireland

1ES66

Maxim Integrated Products
120 San Gabriel Drive
Sunnyvale, CA 94086-5125

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